

Name: _____
Date: _____ Period: _____

Wave Interactions Practice

Define the following and draw a picture:

Reflection is:	Reflection looks like:
Refraction is:	Refraction looks like:
Diffraction is:	Diffraction looks like:
Constructive Interference is:	Constructive Interference looks like:
Destructive Interference is:	Destructive Interference looks like:

Decide what kind of wave interaction (reflection, refraction, diffraction, constructive or destructive interference) each example is demonstrating:

1. You can hear your friend talking about your surprise birthday party from around a corner.
2. While in the bath a baby makes a wave by splashing and after the wave hits the side of the tub it comes back towards her.
3. Two speakers are put just the right distance from each other so that when both speakers are on the music being played is louder than when only one speaker is on.
4. The two speakers in #3 are now moved and sometimes when you walk in front of them the music being played is softer than when only one speaker is on.
5. There is a narrow opening to a bay and when the waves from the ocean pass through it they bend into a circular shape.
6. If you shout towards a tall, far away cliff you hear an echo.
7. A spoon in a glass of water looks bent where the water meets the air.
8. You probably looked at yourself in a mirror sometime today and saw a reflection of yourself.